

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**In re Application of:**

**ARMAND, ET AL.**

**Patent No.:** **6,514,640**

**Issued:** **FEBRUARY 4, 2002**

**Title:** **"CATHODE MATERIALS FOR  
SECONDARY (RECHARGEABLE)  
LITHIUM BATTERIES"**

**§ Group Art Unit: 1745**

**§ Confirmation No.: 2372**

**§ Examiner: CHANEY, CAROL**

**§ Atty. Docket No.: 078963.0111**

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**ATTN: Certificate of Correction Branch  
Honorable Commissioner of Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450**

**CERTIFICATE OF FILING ELECTRONICALLY  
VIA EFS 37 C.F.R. § 1.8**

I HEREBY CERTIFY THAT I HAVE A REASONABLE BASIS FOR  
BELIEF THAT THIS CORRESPONDENCE IS BEING SUBMITTED TO  
THE UNITED STATES PATENT AND TRADEMARK OFFICE VIA  
EFS (ELECTRONICALLY) ON THE DATE INDICATED BELOW,  
AND IS ADDRESSED TO:

ATTN: CERTIFICATE OF CORRECTION BRANCH  
COMMISSIONER FOR PATENTS  
PO BOX 1450  
ALEXANDRIA, VA 22313-1450

/PAUL R MORICO/  
Paul Morico

DATE OF SUBMISSION: **APRIL 6, 2012**  
ELECTRONIC FILING (EFS)

**REQUEST FOR CERTIFICATE OF CORRECTION  
PURSUANT TO 37 C.F.R. § 1.323**

Dear Honorable Commissioner:

Enclosed is a Certificate of Correction, Form PTO-SB/44, for U.S. Patent No. 6,514,640, issued February 4, 2003. The following errors appear in the issued patent due to mistake by Applicants:

**Column 1, line 24**

After “for use as”, insert --an--.

**Column 2, line 44**

Before “and an electrolyte”, insert --cathode-- and delete “catrode”.

**Column 2, line 51**

After “better lithium ion”, insert --diffusivity-- and delete “diffusitivity”.

**Column 2, line 57**

Before “tetrahedra can”, insert -- PO<sub>4</sub><sup>3-</sup>-- and delete “PO<sub>4</sub><sup>3-</sup>”.

**Column 2, line 58**

Before “tetrahedra.”, insert --VO<sub>4</sub><sup>3-</sup>-- and delete “VO<sub>4</sub><sup>3-</sup>”.

**Column 3, line 23**

After “on the initial”, insert -- P<sup>5+</sup>-- and delete “p<sup>5+”.</sup>

**Column 3, line 24**

Before “tetrahedra”, insert --SiO<sub>4</sub><sup>4-</sup>-- and delete “SiO<sub>4</sub><sup>2-”.</sup>

**Column 3, line 33**

Insert --p + s + v < 1;-- and delete “P + s + v < 1;”

**Column 3, line 35**

Insert --3 + s - p = x - y + 2 + t + 2q + 3r-- and delete “3 + s - p = x - y + t + 2q + 3r”.

**Column 3, line 39**

Before “and s may vary”, insert --p-- and delete “r”.

**Column 4, line 1**

Before “The phrase”, insert --described.-- and delete “describe.”

**Column 4, line 7**

Before “a vanadium oxide”, insert --dichalcogenide,-- and delete “dichalcogenide,.”.

**Column 4, line 43**

Before “a salt, the cation”, insert --contains-- and delete “contain”.

**Column 4, line 47**

Before “or a dialkylether”, insert --tetraalkylsulfamide-- and delete “tetraalkylsulfamide”.

**Column 4, line 58**

Before “on a transparent”, insert --layered-- and delete “layed”.

**Column 4, line 62**

Before “nanometers”, insert -- $10^3$ -- and delete “ $10^4$ ”.

**Column 5, line 9**

After “polyethylene”, insert --terephthalate-- and delete “terephatalate”.

**Column 6, line 17**

After “gives the undesired”, insert --monoclinic-- and delete “monoclinic”.

**Column 6, line 20**

Before “and  $\text{NH}_4\text{H}_2\text{PO}_4\cdot\text{H}_2\text{O}$ ”, insert -- $\text{Na}_2\text{CO}_3$ ,  $\text{Fe}\{\text{CH}_3\text{COO}\}_2$ -- and delete “ $\text{NaCO}_3$ ,  $\text{Fe}\{\text{CH}_2\text{COOH}\}_2$ ”.

**Column 6, line 54**

After “formula”, insert -- $\text{A}_{3-x}\text{V}_2(\text{PO}_4)_3$ -- and delete “ $\text{A}_3\text{V}_2(\text{PO}_4)_3$ ”.

**Column 7, line 24**

After “ $0.05 \text{ mA}\cdot\text{cm}^{-2}$ ”, insert -- $(2.1 \text{ mA}\cdot\text{g}^{-1})$ -- and delete “ $(0.95 \text{ mA}\cdot\text{g}^{-1})$ ”.

**Column 9, line 22**

Before “anode”, insert --metallic-reductant-- and delete “metallic-reductant”.

**Column 11, line 21**

After “cells of the”, insert --invention.-- and delete “insertion.”.

**Column 12, line 5**

Before “or the more open”, insert -- $\text{LiM}(\text{PO}_4)_2$ -- and delete “ $\text{LiN}(\text{PO}_4)_2$ ”.

**Column 12, line 7**

Before “for the ordered”, insert -- $\text{LiM}(\text{PO}_4)_2$ -- and delete “ $\text{LiN}(\text{PO}_4)_2$ ”.

**Column 12, line 36**

After “site occupancy”, insert --and electroneutrality-- and delete “an delectroneutrality”.

**Column 12, line 44**

Insert  $-3 + s - p = x - y + 2 + t + 2q + 3r$  and delete “ $3 + s - p = x - y + t + 2q + 3r$ ”.

**Column 12, line 47**

Before “and v may vary”, insert  $-r$ .

**Column 12, line 48**

Before “and s may vary”, insert  $-p$  and delete “ $r$ ”.

**Column 13, line 4**

After “ $0.05 \text{ mA}\cdot\text{cm}^{-2}$ ”, insert  $-(2.1 \text{ mA}\cdot\text{g}^{-1}, 1.13 \text{ mA}\cdot\text{g}^{-1}, \text{ and } 0.95 \text{ mA}\cdot\text{g}^{-1}$ , respectively,-- and delete “ $(0.95 \text{ mA}\text{Ax g}^{-1} \text{ and } 1.13 \text{ mA}\text{Ax g}^{-1}$ , respectively,”.

**Column 13, line 6**

Before “respectively, where”, insert  $-\text{Li}_x\text{FePO}_4$ -- and delete “ $\text{LiFePO}_4$ ”.

**Column 13, line 6**

After “respectively, where”, insert  $-0 \leq x \leq 0.5$ -- and delete “ $0 \leq x \leq 5$ ”.

**Column 13, line 60**

After “as seen in FIGS.”, insert  $-\text{2A-2C}$ -- and delete “ $\text{2A-2C}??$ ”.

**Column 14, line 4**

After “the pristine olivine structure of”, insert  $-\text{LiM(PO}_4$ -- and delete “ $\text{LiN(PO}_4$ ”.

**Column 14, line 8**

Before “and electronic conductivity”, insert  $-\text{diffusivity}$ -- and delete “ $\text{diffusitivity}$ ”.

**Column 14, line 52**

After “to exhibit”, insert  $-\text{phase transition}$ -- and delete “ $\text{phasetransition}$ ”.

**Column 16, line 6**

Before “C. under argon”, insert  $-\text{then } 700^\circ$ -- and delete “ $\text{the } 70020$ ”.

**Column 16, line 8**

Insert  $-\text{Li}_{1.1}\text{Fe}_{0.8}\text{Ti}_{0.1}\text{P}_{0.8}\text{Si}_{0.2}\text{O}_4$ -- and delete “ $\text{Li}_{1.1}\text{Fe}_{0.8}\text{TiP}_{0.8}\text{Si}_{0.2}\text{O}_4$ ”.

**Column 16, line 10**

After “in acetonitrile to”, insert  $-\text{Li}_{0.1}\text{Fe}_{0.8}\text{Ti}_{0.1}\text{P}_{0.8}\text{Si}_{0.2}\text{O}_4$ -- and delete “ $\text{Li}_{0.1}\text{Fe}_{0.8}\text{TiP}_{0.8}\text{Si}_{0.2}\text{O}_4$ ”.

**Column 17, line 4**

After “other for”, insert  $-1 < x < 2$  and delete “ $1 < X < 2$ ”.

**Column 17, line 21**

Before “gives a V vs. x curve”, insert  $-Li_{1+x}FeNb(PO_4)_3$  and delete “ $Li_{1+x}FeNb(PO_4)_3$ ”.

**Column 17, line 27**

Before “at 1.7 V”, insert  $-Nb^{4+}/Nb^{3+}$  and delete “ $Nb^{4+}/Nb^{5+}$ ”.

**Column 17, line 31**

Before “sodium analog”, insert  $--monoclinic--$  and delete “monoclinic”.

**Column 17, line 35**

After “for the”, insert  $--rhombohedral--$  and delete “rhomobhedral”.

**Column 17, line 35**

Before “(0.95”, insert  $--mA.cm^2--$  and delete “mA.cmM<sup>2</sup>”.

“Whenever a mistake of a clerical or typographical nature, or of minor character, which was not the fault of the Patent and Trademark Office, appears in a patent and a showing has been made that such mistake occurred in good faith, the Director may, upon payment of the required fee, issue a certificate of correction, if the correction does not involve such changes in the patent as would constitute new matter or would require reexamination.” MPEP § 1481 (citing 35 U.S.C. § 255).

Applicants provided additional explanation regarding many of the above-identified errors in related Application No. 11/179,617 in a Response to Final Office Action filed on September 24, 2009 (p. 7) and in a Supplemental Response to Final Office Action filed on August 13, 2010 (pp. 7-9), which were accepted by the Examiner in the Office Action mailed September 1, 2010. Applicants respectfully assert that the errors for which corrections are sought are typographical errors, or errors of a minor character, and further respectfully assert that the proposed corrections do not constitute new matter or require reexamination, as recognized by the Examiner by his acceptance of Applicants’ additional explanations in the Office Action Mailed September 1, 2010. Therefore, Applicants respectfully request that the errors appearing on the patent be corrected.

The Commissioner is hereby authorized to debit the Deposit Account of Baker Botts L.L.P., Deposit Account No. 02-0383, Order Number 078963.0111 the amount of \$100.00 for the surcharge set forth in 37 C.F.R. 1.20(a). Applicants believe that there are no additional fees due in association with the filing of this request. However, should the Commissioner deem that any other fees are due, Applicants respectfully request that the Commissioner accept this as a Petition Therefor, and direct that any additional fees be charged to Baker Botts L.L.P. Deposit Account No. 02-0383, Order Number 078963.0111.

Respectfully submitted,

/Paul R. Morico/

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